

**What is claimed is:**

1. A solenoid driver circuit comprising:

control portion for applying a voltage less than an activation threshold value to a solenoid from a power supply when the solenoid is deactivated;

5 detecting portion for detecting a current value when the voltage is applied;

computing portion for computing a resistance value of the solenoid with the applied voltage and the detected current value; and

10 constant-current control portion for maintaining the current value constant during operation by controlling a solenoid driving voltage according to the calculated resistance value.